

Angles in Triangles

LESSON 3

Jan 21-8:53 AM

Connect

TERMINOLOGY

Look up the following terminology and draw a diagram

Acute Triangle-

Obtuse Triangle-

Right Triangle-

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Connect

TERMINOLOGY

Look up the following terminology and draw a diagram

Isosceles Triangle-

Scalene Triangle-

Equilateral Triangle-

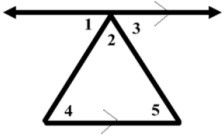

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Practice

YOU TRY!

Use the diagram - Find the sum of the angles in a triangle.

PROOF: Use Parallel Lines to help

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Connect

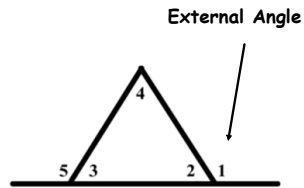
External Angle of a Triangle

An exterior (or external) angle is the angle between one side of a triangle and the extension of an adjacent side.

Properties:

An exterior angle of a triangle is **equal to the sum of the opposite interior angles**.

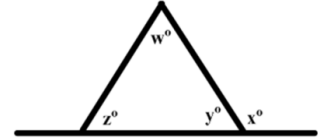
In the figure the exterior angle 1 is equal to the sum of the angles 3 and 4.



Practice

YOU TRY!

Write an equation for the exterior angle of the triangle.



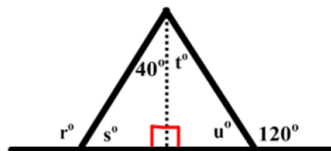
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Practice

YOU TRY!

Calculate the measures of the unknown measures. State how you know.



Practice

CLASSWORK

Complete Lesson 3 worksheet

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